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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)			
Office Action Summary		10/611,472	SZOR, PETER			
		Examiner	Art Unit			
		Ronald Baum	2136			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover shee	t with the correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE OF THE MAIL	ATE OF THIS COMMI 36(a). In no event, however, m vill apply and will expire SIX (6) , cause the application to becor	JNICATION. Bay a reply be timely filed MONTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).			
Status	•					
1)⊠	Responsive to communication(s) filed on <u>05 Ju</u>	<u>ıne 2007</u> .				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.			
Disposit	ion of Claims	,				
4)🖂	Claim(s) 1-16 and 19-33 is/are pending in the	application.				
•	4a) Of the above claim(s) is/are withdraw					
5)	Claim(s) is/are allowed.					
·	Claim(s) 1-16 and 19-32 is/are rejected.					
	Claim(s) <u>33</u> is/are objected to.					
8)	Claim(s) are subject to restriction and/o	r election requirement				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) _ acc	epted or b)⊡ objected	I to by the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in ab	eyance. See 37 CFR 1.85(a).			
_	Replacement drawing sheet(s) including the correct	•	=	i).		
11)	The oath or declaration is objected to by the Ex	caminer. Note the atta	ched Office Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.	C. § 119(a)-(d) or (f).			
	1. Certified copies of the priority document	s have been received.				
	2. Certified copies of the priority document	s have been received	in Application No			
	3. Copies of the certified copies of the prio	•	een received in this National Stage			
	application from the International Bureau	•				
* (See the attached detailed Office action for a list	of the certified copies	not received.			
Attachmer						
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		iew Summary (PTO-413) No(s)/Mail Date			
3) 🔲 Info	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		of Informal Patent Application			

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DETAILED ACTION

- 1. This action is in reply to applicant's correspondence of 05 June 2007.
- 2. Claims 1-16, 19-33 are pending for examination.
- 3. Claims 1-16, 19-32 are rejected.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-16, 19-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Magdych et al, U.S. Patent No. 6,546,493 B1, and further in view of Hollander et al, U.S. Patent No. 6,412,071 B1.
- 5. As per claim 1; "A method comprising:

detecting an attack by

malicious code on

a first computer system [Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation that is embodied in multiple processing elements (i.e., first/second computer systems) configured in a

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network architecture, clearly encompasses the claimed limitations as broadly interpreted by the examiner.];

extracting a malicious code signature from

said malicious code [Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, and more particularly col. 3,lines 23-49, whereas the comparison of 'a plurality of virus/attack signatures ... or extract the harmful information from the infected communications ... 'aspects of the intrusion/attack detection/risk assessment/remediation, clearly encompasses the claimed limitations as broadly interpreted by the examiner.] comprising:

locating a caller's

address of said malicious code in

a memory of said first computer system; and

extracting

a specific number of bytes backward from said caller's address; creating an extracted malicious code packet including

said malicious code signature [Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the intrusion/attack detection/risk assessment/remediation that is embodied in multiple processing elements (i.e., separate intrusion/attack detection (first computer) system versus the risk assessment/remediation (second computer) system where the first to second extracted malicious code information clearly is transferred in a coded packet), clearly encompasses the claimed limitations as broadly interpreted by the examiner.]; and

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sending said extracted malicious code packet from

said first computer system to

a second computer system [Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the intrusion/attack detection/risk assessment/remediation that is embodied in multiple processing elements (i.e., separate intrusion/attack detection (first computer) system versus the risk assessment/remediation (second computer) system where the first to second extracted malicious code information clearly is transferred in a coded packet), clearly encompasses the claimed limitations as broadly interpreted by the examiner.].".

And further as per claim 27, this claim is an apparatus (system) claim for the method claim 1 above, and is rejected for the same reasons provided for the claim 1 rejection; "A computer system comprising:

an intrusion prevention application for

detecting an attack by malicious code on

a first computer system;

a host signature extraction application for

extracting a malicious code signature from

said malicious code comprising:

locating a caller's

address of said malicious code in

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a memory of said first computer system; and

extracting

a specific number of bytes backward from said caller's address;

said host signature extraction application further for

creating an extracted malicious code packet including

said malicious code signature; and

said host signature extraction application further for

sending said extracted malicious code packet from

said first computer system to

a second computer system.".

6. Claim 2 additionally recites the limitations that; "The method of Claim 1 wherein prior to said sending, said method further comprising determining that said extracted malicious code packet is a new extracted malicious code packet.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect encompasses the initial (i.e., new) determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

7. Claim 3 additionally recites the limitations that; "The method of Claim 1 wherein

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prior to said sending, said method further comprising

determining that a maximum number of extracted malicious code packets have not been sent from

said first computer system.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect encompasses the threshold (i.e., maximum number) determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

8. Claim 4 *additionally recites* the limitations that; "The method of Claim 1 wherein said extracted malicious code packet is sent from

said first computer system to

said second computer system

on a secure channel.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the intrusion/attack detection/risk assessment/remediation that is embodied in multiple processing elements (i.e., first computer/second computer) system where the first to second extracted malicious code information clearly is transferred across the Internet (i.e., WWW) such that the secure (i.e., SSL, HTTPS) aspects of secure Web communications, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

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9. As per claim 5; "A method comprising:

detecting an attack by

malicious code on

a first computer system [Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation that is embodied in multiple processing elements (i.e., first/second computer systems) configured in a network architecture, clearly encompasses the claimed limitations as broadly interpreted by the examiner.];

creating an extracted malicious code packet including

parameters associated with

said malicious code [Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the intrusion/attack detection/risk assessment/remediation that is embodied in multiple processing elements (i.e., separate intrusion/attack detection (first computer) system versus the risk assessment/remediation (second computer) system where the first to second extracted malicious code information (i.e., malicious code and network node communications support/address parameters and associated protocol information) clearly is transferred in a coded packet), clearly encompasses the claimed limitations as broadly interpreted by the examiner.], said parameters being selected from the group consisting of

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a caller's address of said malicious code in a memory of said first computer system,

a name of a process in which said attack took place,

ports connected to said process,

service pack levels,

operating system information,

patch level information, and

combinations thereof; and

sending said extracted malicious code packet from

said first computer system to

a second computer system [Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the intrusion/attack detection/risk assessment/remediation that is embodied in multiple processing elements (i.e., separate intrusion/attack detection (first computer) system versus the risk assessment/remediation (second computer) system where the first to second extracted malicious code information clearly is transferred in a coded packet), clearly encompasses the claimed limitations as broadly interpreted by the examiner.].".

And further as per claim 28, this claim is an apparatus (system) claim for the method claim 5 above, and is rejected for the same reasons provided for the claim 5 rejection; "A computer system comprising:

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an intrusion prevention application for

detecting an attack by malicious code on

a first computer system;

a host signature extraction application for

creating an extracted malicious code packet including

parameters associated with said malicious code, <u>said parameters being</u>
<u>selected from the group consisting of</u>

a caller's address of said malicious code in a memory of said first computer system,

a name of a process in which said attack took place,

ports connected to said process,

service pack levels,

operating system information,

patch level information, and

combinations thereof; and

said host signature extraction application further for

sending said extracted malicious code packet from

said first computer system to

a second computer system.".

10. Claim 6 *additionally recites* the limitations that; "The method of Claim 5 wherein prior to said sending, said method further comprising

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determining that said extracted malicious code packet is a new extracted malicious code packet.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect encompasses the initial (i.e., new) determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

11. Claim 7 *additionally recites* the limitations that; "The method of Claim 5 wherein prior to said sending, said method further comprising

determining that a maximum number of extracted malicious code packets have not been sent from

said first computer system.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect encompasses the threshold (i.e., maximum number) determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

12. Claim 8 *additionally recites* the limitations that; "The method of Claim 5 wherein said extracted malicious code packet is sent from

said first computer system to

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said second computer system

on a secure channel.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the intrusion/attack detection/risk assessment/remediation that is embodied in multiple processing elements (i.e., first computer/second computer) system where the first to second extracted malicious code information clearly is transferred across the Internet (i.e., WWW) such that the secure (i.e., SSL, HTTPS) aspects of secure Web communications, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

13. Claim 9 *additionally recites* the limitations that; "The method of Claim 5 further comprising

determining whether said malicious code is sendable.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the extracted malicious code information by virtue of the fact that it is extracted from a file/resident in memory/cache memory, and can be transferred to the second computer across the network (i.e., 'sendable'), clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

14. Claim 10 *additionally recites* the limitations that; "The method of Claim 9 wherein upon a determination that said malicious code is sendable,

said method further comprising

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extracting said malicious code from a memory location.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the extracted malicious code information by virtue of the fact that it is extracted from a file/resident in memory ('from a memory location')/cache memory, and can be transferred to the second computer across the network (i.e., 'sendable'), clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

15. Claim 11 *additionally recites* the limitations that; "The method of Claim 10 wherein said extracting comprises

copying or cutting said malicious code from

said memory location.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the extracted malicious code information by virtue of the fact that it is extracted (i.e., 'copying or cutting') from a file/resident in memory ('from a memory location')/cache memory, and can be transferred to the second computer across the network (i.e., 'sendable'), clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

16. Claim 12 *additionally recites* the limitations that; "The method of Claim 10 further comprising

appending said parameters to

said malicious code after said extraction.".

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The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the extracted malicious code information by virtue of the fact that it is extracted from a file/resident in memory ('from a memory location')/cache memory, and can be transferred to the second computer across the network (i.e., 'sendable' with associated parameters), clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

17. Claim 13 *additionally recites* the limitations that; "The method of Claim 9 wherein upon a determination that said malicious code is not sendable,

said method further comprising

extracting a snippet of said malicious code from a memory location.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas in the case of the extracted malicious code information not extractable in its entirety (i.e., the process of 'extracting a snippet') from memory ('from a memory location')/cache memory, and therefore is assessed as not a 'complete' risk so assessable/acknowledgeable by the second computer, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

18. Claim 14 *additionally recites* the limitations that; "The method of Claim 13 wherein said extracting comprises

copying or cutting a portion of said malicious code from said memory location.".

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The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas in the case of the extracted malicious code information not extractable in its entirety (i.e., the process of 'copying or cutting a portion of') from memory ('from a memory location')/cache memory, and therefore is assessed as not a 'complete' risk so assessable/acknowledgeable by the second computer, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

19. Claim 15 *additionally recites* the limitations that; "The method of Claim 13 further comprising

appending said parameters to

said snippet after said extraction.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas in the case of the extracted malicious code information not extractable in its entirety (i.e., the process of 'copying or cutting a portion of') from memory ('from a memory location')/cache memory, and therefore is assessed as not a 'complete' risk so assessable (i.e., parts of/the snippet/the parameters)/acknowledgeable by the second computer, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

20. As per claim 16; "A method comprising:

receiving an extracted malicious code packet from

a first computer system with

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a second computer system [Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the intrusion/attack detection/risk assessment/remediation that is embodied in multiple processing elements (i.e., separate intrusion/attack detection (first computer) system versus the risk assessment/remediation (second computer, 'receiving an extracted malicious code packet ...') system where the first to second extracted malicious code information clearly is transferred in a coded packet), clearly encompasses the claimed limitations as broadly interpreted by the examiner.].

said first computer system being

a host computer system and

said second computer system being

a local analysis center computer system [Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the intrusion/attack detection/risk assessment/remediation that is embodied in multiple processing elements (i.e., separate intrusion/attack detection (first computer) system versus the risk assessment/remediation (second computer, 'a local analysis center computer ...') system where the first to second extracted malicious code information clearly is transferred in a host to server/analysis network node environment), clearly encompasses the claimed limitations as broadly interpreted by the examiner.]; and

determining whether an attack threshold

has been exceeded based upon

said extracted malicious code packet [Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect encompasses the threshold (i.e., maximum number) determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.],

wherein upon a determination that

an attack threshold has been exceeded, said method further comprising

delivering a signature update comprising

a malicious code signature to

an intrusion detection system [Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, and more particularly col. 2,lines 27-55, whereas the comparison of '... a database of known vulnerabilities may then be updated [i.e., at the 'intrusion detection system'] based on risk assessment scan ...' aspects of the intrusion/attack detection/risk assessment/remediation, clearly encompasses the claimed limitations as broadly interpreted by the examiner.].".

And further as per claim 29, this claim is an apparatus (system) claim for the method claim 16 above, and is rejected for the same reasons provided for the claim 16 rejection; "A computer system comprising:

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a local analysis center signature extraction application for

receiving an extracted malicious code packet from

a first computer system with

a second computer system,

said first computer system being

a host computer system and

said second computer system being

a local analysis center computer system; and

said local analysis center signature extraction application further for

determining whether an attack threshold has been

exceeded based upon

said extracted malicious code packet,

wherein upon a determination that

an attack threshold has been exceeded, said method further comprising

delivering a signature update comprising

a malicious code signature to

an intrusion detection system.".

21. Claim 19 *additionally recites* the limitations that; "The method of Claim <u>16</u> further comprising

determining that a maximum number of signature updates have not been sent prior to said delivering a signature update.".

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The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, and more particularly col. 2,lines 27-55, whereas the comparison of '... a database of known vulnerabilities may then be updated [i.e., at the 'intrusion detection system'] based on risk assessment scan ...' aspects of the intrusion/attack detection/risk assessment/remediation, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

22. Claim 20 *additionally recites* the limitations that; "The method of Claim <u>16</u> further comprising

creating said signature update.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, and more particularly col. 2,lines 27-55, whereas the comparison of '... a database of known vulnerabilities may then be updated [i.e., at the 'intrusion detection system'] based on risk assessment scan ...' aspects of the intrusion/attack detection/risk assessment/remediation, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

23. Claim 21 *additionally recites* the limitations that; "The method of Claim 16 wherein said extracted malicious code packet includes

a malicious code signature, and

wherein upon a determination that said attack threshold has been exceeded, said method further comprising

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delivering said malicious code signature to

a global analysis center.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect (i.e., at the risk assessment network element 'a global analysis center') encompasses the threshold (i.e., maximum number) determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

24. Claim 22 *additionally recites* the limitations that; "The method of Claim 21 further comprising

determining that a maximum number of malicious code signatures have not been sent prior to

said delivering said malicious code signature.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect encompasses the threshold (i.e., maximum number) determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

25. Claim 23 *additionally recites* the limitations that; "The method of Claim 21 further comprising

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extracting said malicious code signature from

said extracted malicious code packet.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect encompasses the extracted malicious code packet determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

26. Claim 24 *additionally recites* the limitations that; "The method of Claim 16 further comprising

determining whether said extracted malicious code packet includes a malicious code signature,

wherein upon a determination that said extracted malicious code packet

does not include a malicious code signature, said method further comprising

extracting a malicious code signature from

said extracted malicious code packet.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect encompasses the extracted malicious code packet determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

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27. Claim 25 *additionally recites* the limitations that; "The method of Claim 16 wherein upon a determination that

said attack threshold has been exceeded,

said method further comprising

delivering said extracted malicious code packet to a global analysis center.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect (i.e., at the risk assessment network element 'a global analysis center') encompasses the threshold (i.e., maximum number) determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

28. Claim 26 *additionally recites* the limitations that; "The method of Claim 25 further comprising

determining that a maximum number of extracted malicious code packets

have not been sent prior to

said delivering said extracted malicious code packet.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect (i.e., at the risk assessment network element 'a global analysis center') encompasses the threshold (i.e., maximum number)

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determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

29. Claim 30 *additionally recites* the limitations that; "The method of Claim 1 wherein the specific number of bytes is 32 bytes.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect encompasses the initial (i.e., new) determination of an extracted malicious code/attack, and further, the standard stack frame (as related to secondary reference, see para. 32. below) would encompass the '... specific number of bytes is 32 bytes ...' aspect of the claim limitation and thus, clearly encompass the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

30. Claim 31 *additionally recites* the limitations that; "The method of Claim 9 wherein said malicious code is sendable if

a size of said malicious code is 8 KB or less.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas the extracted malicious code information by virtue of the fact that it is extracted from a file/resident in memory/cache memory, and can be transferred to the second computer across the network (i.e., 'sendable'), and further, the 'or less' (as related to secondary reference, see para. 32. below) would encompass the '...size of said malicious code is 8 KB or less ...'

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aspect of the claim limitation and thus, clearly encompass the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

31. Claim 32 *additionally recites* the limitations that; "The method of Claim 13 wherein said extracting a snippet comprises:

locating a caller's address of said malicious code; and extracting a specific number of bytes

above and below said caller's address.".

The teachings of Magdych et al (Abstract, figures 1-5 and associated descriptions, col. 2,lines 8-56, whereas a system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation is such that the risk assessment aspect encompasses the initial (i.e., new) determination of an extracted malicious code/attack, clearly encompasses the claimed limitations as broadly interpreted by the examiner.) suggest such limitations.

32. The teachings of Magdych et al suggest the base claims limitations (see "As per claim 1..., As per claim 2 ... 16, 19-33..." paragraphs above) without explicitly teaching of the use of "... locating a caller's address of said malicious code in a memory of said first computer system; and extracting a specific number of bytes backward from said caller's address", as a form of specific malicious code address extraction for the purpose of signature construction functionality per se. Further, it should be noted that as broadly interpreted by the examiner, the "locating a caller's address of said malicious code in a memory" insofar as locating the memory actual executable address of said code, is the same as the address itself stored in the stack for the return,

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post buffer overflow attack, from the call to the malicious code (i.e., the 2 aspects of the address are patently indistinguishable).

Hollander et al, teaches (i.e., Abstract, figures 1-8 and associated descriptions, col. 2,lines 23-67, col. 3,lines 40-col. 4,line 8) of detecting, preventing/notification generation thereof, of buffer overflow events in real time such that the API Interception System model is used as a basis to tag calls to executing code and determine specific characteristics of the calling/called code (i.e., either as it is referenced in memory or more particularly as it's address as contained in a location in the stack that should have contained the real return address prior to the buffer overflow attack). The Hollander et al invention also clearly encompasses the collection of the stack/frame involved in the area of memory associated with the address of the malicious code (i.e., 'extracting a specific number of bytes backward from said caller 's address'), insofar as the preventing/notification aspects associated with the applicants claimed invention.

Thus, it would have been obvious to a person of ordinary skill in the art at the time of the invention to have been motivated to combine the 'system utilizing predetermined policy based intrusion/attack detection/risk assessment/remediation that is embodied in multiple processing elements (i.e., first/second computer systems) configured in a network architecture' of Magdych et al, with the Hollander et al teachings of actual specific real time buffer overflow remediation, etc. Such motivation to combine would clearly encompass the need to allow a real time approach to the networked intrusion/attack detection/risk assessment/remediation (i.e., Hollander et al col. 3,lines 42-col. 4,line 8).

Allowable Subject Matter

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33. Claim 33 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

34. Claim 33 *additionally recites* the limitations that; "The method of Claim 32 wherein said extracting a specific number of bytes

above and below said caller's address comprises
extracting 4KB above said caller's address and
4KB below said caller's address.".

Response to Amendment

- 35. As per applicant's argument concerning the lack of teaching by Magdych et al of "... locating a caller's address of said malicious code in a memory of said first computer system; and extracting a specific number of bytes backward from said caller's address", and "... said first computer system being a host computer system and said second computer system being a local analysis center computer system ...", the examiner has fully considered in this response to amendment; the arguments, and finds them not to be persuasive, as discussed above in the 35 U.S.C. 103(a) rejection.
- 36. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Conclusion

37. Any inquiry concerning this communication or earlier communications from examiner should be directed to Ronald Baum, whose telephone number is (571) 272-3861, and whose unofficial Fax number is (571) 273-3861 and unofficial email is Ronald.baum@uspto.gov. The examiner can normally be reached Monday through Thursday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami, can be reached at (571) 272-4195. The Fax number for the organization where this application is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. For more information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ronald Baum

NASSER MOAZZAMI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100

8,14,07

Patent Examiner